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Notice of Allowability	Application No.	Applicant(s)	•
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	K. Cyrus Kianni	2883	
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## Reason for Allowance

1. Claims1-10 are allowed for the following reasons:

The instant application is deemed to be directed to a nonobvious improvement over the invention patented in Pat. No. Abe (US 5757993).

Claims 1-4, 6, 8 and 10 are allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein the first and second waveguides have fundamental propagation modes of different sizes in combination with the rest of the limitations of the base claim.

Claim 5 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein the lens has a magnification, the magnification times the size of a fundamental propagation mode of the first fiber being about equal to the size of a fundamental propagation mode of the second fiber in combination with the rest of the limitations of the base claim.

Claim 7 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein each fiber has a core and a cladding; and a discontinuity in refractive index across an interface between the core and cladding, the discontinuities being different across the interfaces of the first and second fibers in combination with the rest of the limitations of the base claim.

Claim 9 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein the GRIN fiber lens has a core with a graded refractive index profile, the profile having a radial second derivative

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whose average magnitude is less than about  $2.4 \times 10^{-5}$  microns<sup>-2</sup> in combination with the rest of the limitations of the base claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## **Contact Information**

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to K. Cyrus Kianni whose telephone number is (571) 272-2417.

The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 6:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font, can be reached at (571) 272-2415.

## Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

## or faxed to:

(703) 872-9306 (for formal communications intended for entry)

or:

Hand delivered responses should be brought to Crystal Plaza 4, 2021 South Clark Place, Arlington, VA., Fourth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0956.

K. Cyrus Kianni Patent Examiner Group Art Unit 2883 Frank Font Supervisory Patent Examiner Group Art Unit 2883

Frank & Font

August 19, 2004